

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2004/000153

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: B63B 27/16, B63B 27/30, B66C 13/02**  
 According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: B63B, B66C**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,ND classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**EPO-INTERNAL, WPI DATA, PAJ**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4395178 A (MACDONELL ET AL), 26 July 1983 (26.07.1983), figures 1-4, abstract --	1-10
X	US 4180362 A (STAIR), 25 December 1979 (25.12.1979), figures 1,2, abstract --	1-3,6,10
X	US 5713710 A (STRONG ET AL), 3 February 1998 (03.02.1998), column 4, line 5 - line 31, figures 1,4A, abstract --	1-3,6-10
X	US 2874855 A (WARREN A RESS JR), 24 February 1959 (24.02.1959), column 2, line 42 - line 65, figures 1,2 --	1,8

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
**5 October 2004**

Date of mailing of the international search report

**05-10-2004**Name and mailing address of the ISA/  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6309160 B1 (GREENE, JR), 30 October 2001 (30.10.2001), column 7, line 40 - line 50, figure 2, abstract --	1,8
A	US 4412598 A (KIMON ET AL), 1 November 1983 (01.11.1983), figures 1A,1B, abstract -----	1,8

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

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